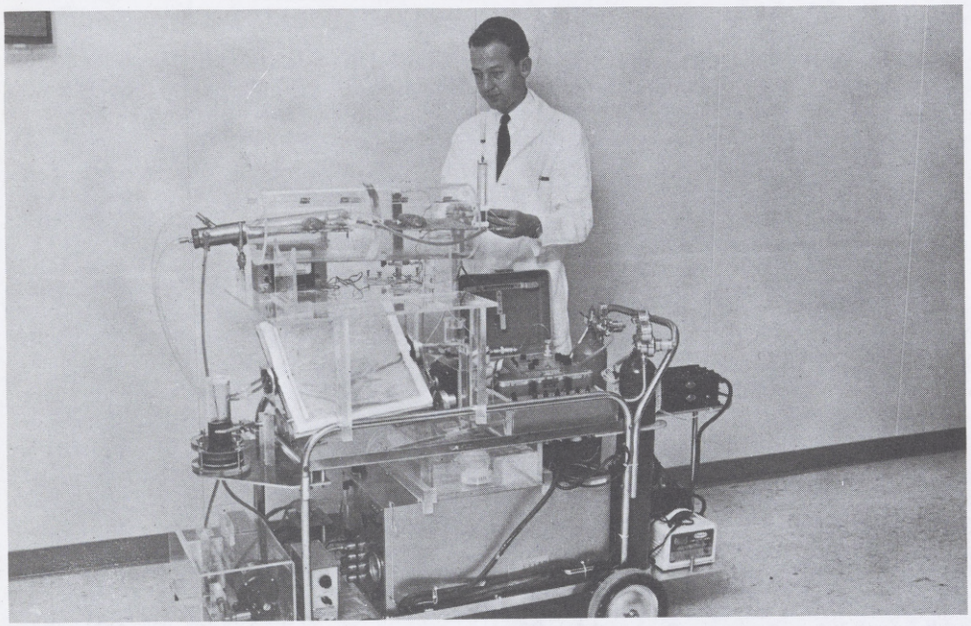
The Campus Bulletin

UNIVERSITY OF CALIFORNIA SAN FRANCISCO MEDICAL CENTER FEBRUARY 1968 VOL. 1, NO. 4



F. O. Belzer, M.D. and Transportable Organ Preservation Machine

Dr. Belzer's Research Team Makes Transplant Breakthrough

The first human kidney transplantations using cadaver kidneys that were 'kept alive' on an organ preservation machine after removal were performed recently by F. O. Belzer, M.D., Assistant Professor of Surgery and his associates at the Medical Center. The procedures were successful in all three patients.

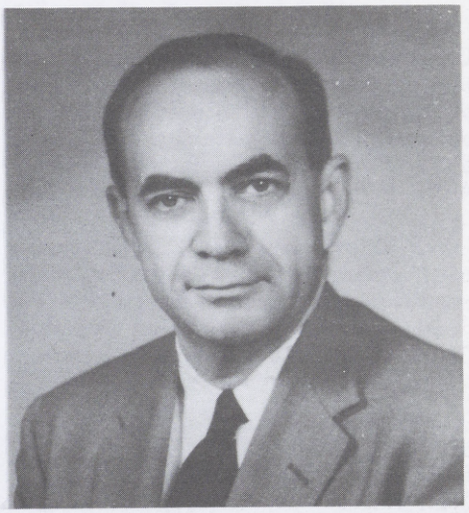
Dr. Belzer headed the team of researchers who developed the unique transportable perfusion machine on which the kidneys were maintained — one for a period of 17 hours. Animal kidneys have been maintained for as long as 72 hours and then used successfully.

"While the kidney is on the machine," said Dr. Belzer, "a constant supply of human plasma, fortified with hormones and other substances, is pumped through it. The kidney functions as it would in the body and produces urine.

"Improved preservation techniques," he explained, "will permit transplantation to be an elective, rather than emergency, procedure. The additional time will also allow matching of donor and recipient by tissue typing. Unrelated donors who are proved compatible by tissue typing are probably as successful as donors who are related to the recipient.

"Today, patients waiting to receive an unrelated donor kidney must be on constant standby in the hospital—sometimes for weeks. However, with the pump to maintain the organ, recipients will be able to wait at home until the

(CONTINUED ON PAGE 3, COLUMN 1)



Julius H. Comroe, Jr., M.D.

Comroe Named to Blue Ribbon Board

Julius H. Comroe, Jr., M.D., Professor of Physiology and Director of the Cardiovascular Research Institute, has been named to a 21-man Board of Medicine, recently formed by the National Academy of Sciences to find ways of speeding the benefits of medical research and practice to the public.

Academy President Dr. Frederick Seitz said creation of the Board represents growing concern by the Academy, the medical profession, and Federal agencies that the increase in biomedical knowledge was outstripping its application to "critical human needs."

The Board may explore such questions as the ethical and legal implications of experimenting with human beings; the role of medical schools and other biomedical institutions in attacking rural and urban slum problems; how to improve the quality and delivery of medical care; how to shorten the time between the acquisition of new knowledge and its application; and how medical knowledge is best used, refreshed, and taught.

Bulletin Briefs

Dwight H. Murray, M.D., Clinical Instructor of Surgery, has been appointed to a four-year term on the District Review Committee for the First District, Board of Medical Examiners, State of California.

* * *

Troy C. Daniels, Ph.D., Professor and Dean Emeritus, School of Pharmacy, received an honorary Doctor of Science degree from the University of Michigan.

* * *

James S. Elliott, M.D., Assistant Clinical Professor of Urology, has been invited to deliver one of the opening papers at an international symposium on renal stone research to be held at the University of Leeds, England in April.

* * *

E. Leong Way, Ph.D., Professor of Pharmacology and Toxicology, was named to the Committee on Problems of Drug Dependence, National Research Council, National Academy of Sciences.

* * *

American Cancer Society clinical fellowships were recently awarded to **Drs. Elena E. Young, John H. Austin, John Beumer III,** and **Ivan J. Silverberg.**

Robert M. Featherstone, M.D., Chairman of the Department of Pharmacology, was appointed consultant in pharmacology and toxicology to the National Institute of General Medical Sciences.

* * *

Sheldon Wolff, Ph.D., Professor of Cytogenetics, has been elected an associate editor of the journal **Radiation Research.**

* * *

Robert W. Rule, Jr., D.D.S., Professor of Operative Dentistry and Associate Dean, School of Dentistry, was presented with the Department of the Army Outstanding Civilian Service medal for more than 20 years of consultation service to the Army Dental Corps.

* * *

Chancellor Williard C. Fleming has joined the Board of Directors of the San Francisco Health Care and Health Studies Foundation, a recently-created organization dedicated to developing a program of health care for the underprivileged in the City. Other staff members on the Board are **Laurel Glass, Ph.D., Francis J. Rigney, M.D.,** and **Victor Richards, M.D.**

Maurice Galante, M.D., Associate Professor of Surgery, Ob-Gyn, and Dentistry and Associate Resident of Oncology, was Visiting Professor of Surgery at the University of Santo Tomas, Manila, the Philippines during January.

* * *

Frederic C. Ludwig, M.D., Associate Professor in Residence, Pathology and Cancer Research Institute, has been invited by the Brazilian government to give a ten-lecture course in radiation pathology next summer at the Oswaldo Cruz Institute in Rio de Janeiro and the Institute of Nuclear Medicine of the University of Sao Paulo. It will be Dr. Ludwig's third summer of teaching in Brazil.

* * *

James E. Cleaver, Ph.D., Assistant Research Biophysicist, Laboratory of Radiobiology, has authored "Thymidine Metabolism and Cell Kinetics," the sixth volume in the series **Frontiers of Biology,** North Holland Publishing Co., the Netherlands.

* * *

Laurel Glass, Ph.D., Associate Professor of Anatomy, was elected vice-president of the San Francisco Board of Education.

* * *

Tawfik ElAttar, Ph.D., Lecturer in Biochemistry, joined the Department of Biochemistry and Nutrition at the University of Missouri, Kansas City, as an Associate Professor January 1.

Courses Tailored for Employees

The Personnel Office is offering the following employee training courses, beginning in February:

Effective Supervisory Practices is designed for supervisors and managers who wish to improve their ability to coordinate and direct group effort. Two hours a week for ten weeks.

Conducting Effective Performance Evaluation aims to make performance appraisal an effective communication tool instead of an unpleasant chore. Three 1½-hour meetings.

Communications Training outlines reasons for communication failures and methods for avoiding them. Four 1½-hour meetings.

Medical Terminology is available to secretaries and other clerical personnel who want to increase their knowledge in this area. Sixteen hourly meetings held twice weekly during the noon hour.

For additional information, contact Brevard Sinclair, Training Officer, x1407.

NIH Raises Ceiling on Small Grants

The ceiling on small grants from the National Institute of Mental Health has been raised from $3500 to $5000 in direct costs. An additional $1000 may be awarded for either the direct or indirect costs of a research project. The small grant program provides financial support for a year or less in a relatively flexible manner for studies in behavioral, biological, and medical sciences relevant to mental health.

Rehab Medicine is Now Required

Rehabilitation medicine is now a required undergraduate course in the School of Medicine. Throughout the nation only a handful of medical schools teach this subject at the undergrad level, and the Medical Center is the first in the UC system to do so.

Working for five years on the new program were its director Verne T. Inman, M.D., Ph.D., Chairman of the Department of Orthopaedic Surgery, and assistant director Gregory Bard, M.D., Medical Director of the section on Physical Medicine and Rehabilitation.

"Today we know," said Dr. Bard, "that it is possible for the stroke patient to have fuller recovery with comprehensive care. He used to be under general care but now his treatment may include specialized treatment in corrective surgery, speech therapy, physical therapy, and occupational therapy."

Several departments will incorporate rehabilitation medicine into their existing courses but the Division of Ambulatory and Community Medicine will provide the major teaching facilities for this program in its initial phase.

Take A Quick Look

For the information and convenience of employees, copies of the **Personnel Manual** have been placed in the Browsing Room of the Main Library, and in the lobby of the Personnel Office, U–60.

NAACP Award to Dr. T. N. Burbridge

As president of the local chapter of the National Association for the Advancement of Colored People, Dr. Thomas N. Burbridge, Associate Professor of Pharmacology, led hundreds of peaceful sit-ins at San Francisco hotels and car agencies in 1964.

This December he was honored for his civil rights work by the Negro community with a reception in the Faculty Lounge of Millberry Union. He was cited for "his outstanding contribution to bringing justice and equality to San Francisco" and presented with a plaque by the Metropolitan Council of NAACP.

Dr. Belzer's Research Team Makes Transplant Breakthrough

(CONTINUED FROM PAGE 1, COLUMN 2)

correctly matched kidney is available," the surgeon continued.

Although the ultimate goal is to preserve kidneys and other organs for longer periods of time, short-time preservation is a major contribution to transplantation.

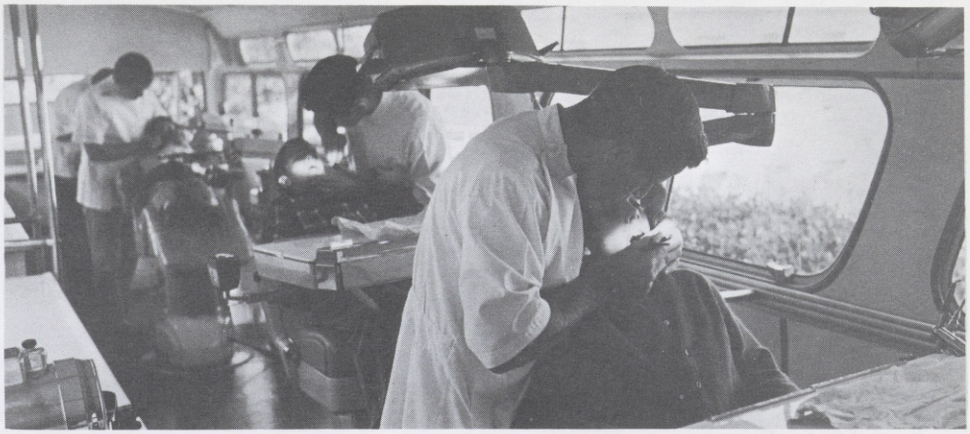
Long-term preservation and organ banks will not be possible until the problems associated with freezing and thawing have been overcome. But for transplantation of such organs as heart, liver, and lungs even a period of 72 hours is of the utmost importance.

Transplantation of these organs requires more time for surgical preparation of the patient who is the recipient and while the patient is being prepared the organ can be nurtured on the perfusion machine, thereby lessening damage to the transplant organ.

A donor organ kept on the machine also eliminates the problem of simultaneous surgery and the need for at least two surgical teams for transplantation.

The preservation machine is transportable and can be moved from one hospital to another if necessary. This enables the surgical team to keep the kidney perfused with a minimum of time lapse after removal from the donor.

This work is supported in part by the National Institute of Arthritis and Metabolic Diseases of the N.I.H. and by University funds.



U.C. Dental Students cleaning teeth in the largest of two new Mobile Clinics

New Mobile Clinics At Center

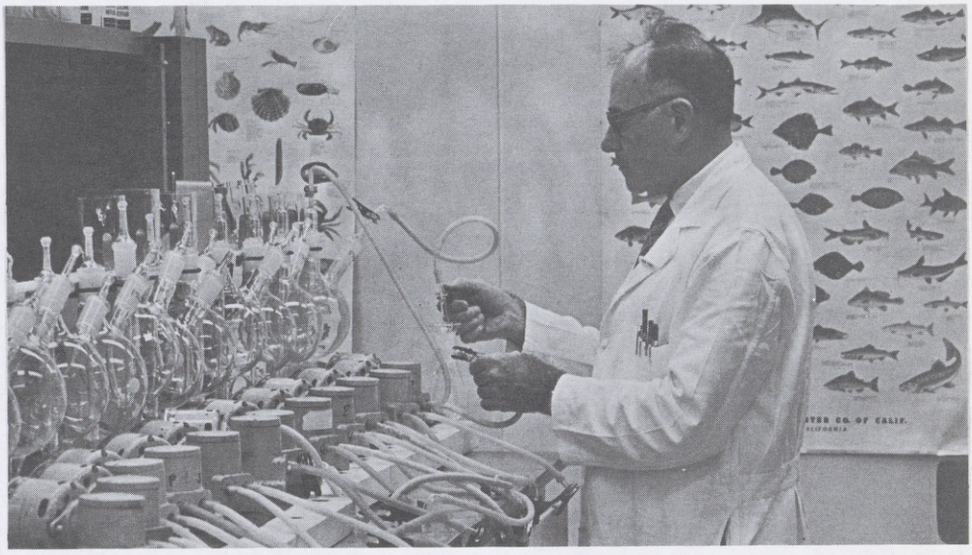
With the recent addition of a big bus and a compact little truck camper, there are now three Mobile Clinics operating out of the Medical Center.

The city type GM bus contains four completely equipped dental offices. The smaller camper has been outfitted with a single dental office and two x-ray units.

In 1965, UC's first Mobile Clinic took to the road. The purpose behind this experiment in dentistry on wheels was twofold: to try out a teaching tool which exposes students to a wide range of dental problems, and to provide dental care to people who would otherwise have a hard time getting it.

In its first three years of operation, the original Mobile Clinic visited many poor communities, orphanagee, and schools for the deaf and the blind. In all, about 3000 patients were treated, and one hundred UC dental students worked on the project.

With the two new Mobile Clinics, UC ought to reach and teach even more.



Dr. Lionel Farber running a fish freshness test in the Sea Food Research Lab.

Fish Freshness Test

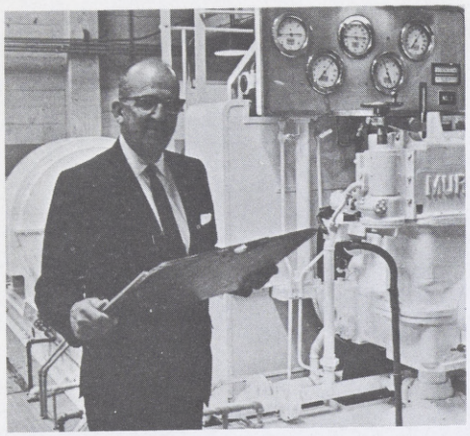
Before fish is served to patients or in the employees' cafeterias, it must pass a freshness test developed by Lionel Farber, Ph.D., Resident Biochemist in the Hooper Foundation, and his research associates in the Sea Food Research Laboratory.

Fish is delivered to the Dietary Department by local vendors who are contracted for three month periods.

If examination in Dr. Farber's Lab of, say, a Thursday morning batch shows the fish's bacteria count is acceptably low, it's approved for the Friday menu.

On the other hand, if the fish flunks the freshness test, it's sent back to the vendor and a new supply is bought on the open market – and the vendor pays the difference between market and contract price.

Dr. Farber says there have been fewer and fewer rejections since this system was first put into effect in 1959.



Joseph Viera, Physical Plant Administrator, in front of one of Medical Center's two emergency auxilliary power units.

Profile of the Physical Plant Head

"I remember a frantic phone call one stormy day asking us to send a man fast because an office was being 'flooded' by the rain. When our man got there, he found the window was wide open," said Joseph Viera, Physical Plant Administrator, reminiscing about his 38 years at the Medical Center.

"Occasionally we get complaints about lights and machines not working—then we hustle over only to discover they're not switched on or plugged in.

"But these false alarms aren't that much of a headache. On the contrary, too often people fail to report real breakdowns, especially the minor ones like leaky faucets, plugged drains, and burned out bulbs, that we are here to fix. The Physical Plant Department is responsible for the care and repair of all the built-in fixtures and equipment in the Medical Center, except for those items bought directly out of a department's budget.

"When I first came here years ago, there were only a few buildings and lots of trees."

Today, Mr. Viera and his staff of 140 are charged with the maintenance, repair and remodeling of two million square feet of buildings and much of the equipment in them.

Also within Mr. Viera's baliwick is the upkeep of the Campus' grounds, operation of the power plant and emergency auxilliary power, and running of the incinerator which disposes of approximately 24,000 pounds of refuse daily.

"With so many sick people in bed, the possibility of a fire is always a worry." continued Mr. Viera.

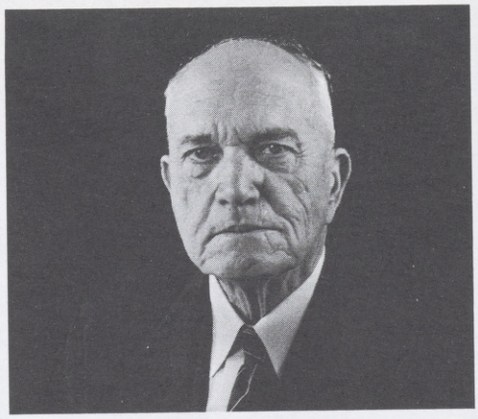
"My men are constantly on the alert for any violations of the fire prevention codes—such as overloaded electrical outlets, hospital equipment blocking emergency exits and doorways, or coats hanging over fire extinguishers.

"We also have periodic fire safety inspections and drills."

The elaborate patient evacuation plan, developed by Physical Plant, Hospital Administration, and the San Francisco Fire Department, has never been used. "And if everybody remembers to be careful, it may never be," he added.

The Campus Bulletin is published periodically by the Office of Public Information, University of California San Francisco Medical Center. Send news information for publication to Pat Pierard, 509 University Hospital.

COPY DEADLINE FOR THE NEXT ISSUE IS MARCH 15, 1968



British Medal to Dr. Herbert Evans

Herbert M. Evans, M.D., Professor of Anatomy Emeritus, who recently celebrated his 85th birthday, was awarded the Marshall Medal by the Society for the Study of Fertility. The medal was given in recognition of his scientific contributions, especially those in the field of reproductive physiology. Dr. Evans is the third scientist to be so honored by the British Society.

History Seminars

This year, as in the past 25, Dr. J. B. deC. M. Saunders, Chairman, Department of the History of Health Sciences, is conducting his evening series of seminars on the history of medicine.

Open to the public, the sessions will trace the development of medicine from its primitive beginnings through the Renaissance.

The meetings will be held at 7:30 p.m. in the History Room, Third Floor Library, on the following dates—February 6, 20, and 27; April 16, 30; May 14, 28.

OFFICE OF PUBLIC INFORMATION
UNIVERSITY OF CALIFORNIA
SAN FRANCISCO MEDICAL CENTER
SAN FRANCISCO, CALIFORNIA 94122